

CLAIMS

We claim:

1. An elevator car assembly (20), comprising
a frame (24);
5 at least one cabin door (26) supported for guided movement relative to the
frame (24);
a door mover (40) for moving the door between open and closed positions, the
door mover being supported by the frame near a lower edge (44) of the door; and
an interlock (42) for simultaneously moving a corresponding hoistway
10 entrance door (66) with the cabin door (26), the interlock (42) being positioned near
the lower edge (44) of the door.
2. The assembly of claim 1, including a sill member (34) beneath the door (26)
and wherein the door mover (40) and the interlock (42) are supported beneath the sill.
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3. The assembly of claim 2, wherein the sill member (34) is located beneath the
door (26) and supported by the frame (50) at least partially in a plane containing the
door (26).
- 20 4. The assembly of claim 3, wherein the sill member (34) includes a groove (52)
that receives a portion (54) of the door to guide movement of the lower portion of the
door as the door moves between the open and closed positions.
5. The assembly of claim 4, wherein the portion (54) of the door extends through
25 the groove (52) in the sill member and the mover is coupled with the extending door
portion such that the mover selectively moves the door.
6. The assembly of claim 1, wherein the door mover (40) is supported beneath
the door.
- 30 7. The assembly of claim 1, wherein the interlock (42) is supported beneath the
door.

8. An elevator door assembly (20), comprising:
a car frame (24) having a rail (30) and a sill (34);
at least one car door (26) supported for movement along the rail (30) and the
5 sill (34) between an open and a closed position;
a door mover (40) supported near a lower edge (44) of the car door;
an entrance door frame (70) having a header (72) and a sill (78) that are
adapted to be supported in a fixed position near an opening to a hoistway;
at least one hoistway door (66) supported for movement relative to the header
10 (72) and door frame sill (78) between open and closed positions; and
an interlock (42, 80, 82) that couples the car door (26) to the hoistway door
(66) such that the doors move together responsive to the door mover (40), the
interlock (42) being supported near the door mover.
- 15 9. The assembly of claim 8, including a sill member (34) beneath the car door
(26) and wherein the car door mover (40) and the interlock (42) are supported beneath
the sill (34).
- 20 10. The assembly of claim 9, wherein the sill member (34) is located beneath the
car door (26) and supported by the car frame (50) at least partially in a plane
containing the car door.
- 25 11. The assembly of claim 10, wherein the sill member (34) includes a groove
(52) that receives a portion (54) of the car door to guide movement of the lower
portion of the car door as the car door moves between the open and closed positions.
- 30 12. The assembly of claim 11, wherein the portion (54) of the car door extends
through the groove (52) in the sill member (34) and the mover (40) is coupled with
the extending car door portion (54) such that the mover (40) selectively moves the car
door.

13. The assembly of claim 8, wherein the car door mover (40) is supported beneath the car door (26).

14. The assembly of claim 8, wherein the interlock (42) is supported beneath the
5 car door (26).